BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE PROJECT: Construction of Samudaya Bhavana at 5th Phase Yelahanka in Someshwara Ward No 03 Yelahanka New town Sub Division

								Estimate Cost	2500000.00
Sl No	**Description of Item**	**Unit**	**No**	**L**	**B**	**D**	**Qty**	**Rate**	**Amount**
1	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge.(PWD SR 2021-22 Vol -II Pg 165 item no 19.24)								
	Coble Stones	Sqm	1	36.50	8.20		299.30		
	Basic rate							1390.00	
	Area weightage 10%							139.00	
	Total						**299.30**	**1529.00**	**457629.70**
2	Dismantling of barbed wire fencing/ wire mesh fencing including posts, foundation concrete, back filling of pit by manual means including disposal of dismantled material with all lifts and lead, stacking serviceable material and unserviceable material separately.. (PWD SR 2021-22 Vol -III Pg 10 item no 2.								
	Fencing	m	1	10.00			10.00		
		m	2	8.00			16.00		
	Basic rate							**75.00**	
	Area weightage 10%							7.50	
	Total						**26.00**	**82.50**	**2145.00**
3	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m (PWD SR 2021-22 Vol -I Pg 5 item No. 1.4.2)								
	Footings								
		Cum	21	2.70	2.70	1.80	275.56		
	SSM Footing								
	Along long direction	Cum	2	11.15	0.75	0.90	15.05		
	Along Short direction	Cum	9	3.70	0.75	0.90	22.48		
		Cum	1	1.00	0.75	0.90	0.68		
	Sump	Cum	1	2.30	2.30	2.10	11.11		
	Basic rate							199.00	
	Area weightage 10%							19.9	
	Total						**324.88**	**218.9**	**71115.36**
4	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. Specification No. (PWD SR 2021-22 Vol -2 CORRIGENDA,item No. 6.4)								
	Footings								
		Cum	21	2.70	2.70	0.10	15.31		
	Basic rate							2561.00	
	Area weightage 10%							256.1	
	Total						**15.31**	**2817.1**	**43126.98**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates.Specification (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)								
	Footings								
		Cum	21	2.70	2.70	0.15	22.96		
	SSM Below								
	Along long direction	Cum	2	32.75	0.75	0.15	7.37		
	Along Short direction	Cum	9	5.50	0.75	0.15	5.57		
		Cum	1	1.00	0.75	0.15	0.11		
	Sump	Cum	1	2.30	2.30	0.15	0.79		
	Basic rate							5554.00	
	Area weightage 10%							555.4	
	Total						**36.81**	**6109.40**	**224868.69**
6	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates (PWD SR 2021-22 Vol -I Pg 17 item no 2.4.1)								
	SSM Above								
	Along long direction	Cum	2	32.75	0.60	0.1	3.93		
	Along Short direction	Cum	9	5.5	0.60	0.1	2.97		
		Cum	1	1	0.60	0.1	0.06		
	Basic rate							5880	
	Area weightage 10%							588	
	Total						**6.96**	**6468.00**	**45017.28**
7	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (Vol 2/ P No-9/ I no- 5.4 of PWD SR 2021-22)								
	SSM								
	Along long direction	Cum	2	32.75	0.6	0.75	29.48		
	Along Short direction	Cum	9	5.5	0.6	0.75	22.28		
		Cum	1	1	0.6	0.75	0.45		
	Basic rate							5352.00	
	Area weightage 10%							535.2	
	Total						**52.20**	**5887.2**	**307311.84**
8	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. ((PWD SR 2021-22 Vol- I P.No -7 / I.No -1.9)								
	Filling Available of Excavated Earth								
	Earth Work Excavation	Cum	Qty vide from : 2				324.88		
	PCC for Footing	Cum	Qty vide from : 4 & 5				-42.97		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Filling in foundation with granite / trap broken metal	Cum	Qty vide from : 3				-15.31		
	SSM Footing	Cum	Qty vide from : 6				-52.20		
	Footing Concrete Quantity	Cum	Qty vide from : 10				-91.85		
	Basic rate							204.00	
	Area weightage 10%							20.4	
	Total						**122.54**	**224.40**	**27497.86**
9	**Loading and Unloading of Stone Boulder**/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 14 m3) (PWD SR 2021-22 Vol-III Page No.3, Item No.1.1C)								
							324.88		
	Excavated Earth	Cum					-122.54		
	Filling Available of Excavated Earth								
								74.00	
	Basic rate							**7.40**	
	Area weightage 10%						**202.34**	**81.40**	**16470.19**
	Total								
10	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4A)								
		t.Km		202.34		1.280	258.9907		
								12.00	
	Basic rate							**96.00**	
	8Km 12*8							**9.60**	
	Area weightage 10%						**258.99**	**105.60**	**27349.42**
	Total								
11	Providing and laying in position Reinforced cement concrete for all **Sub structures of building,** Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/ trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) **M25** Design Mix Using 20 mm nominal size graded crushed coarse aggregates (Vol 2/ P No-17/ I no- 2.4.3 of PWD SR 2021-22)								
	Footings								
		Cum	21	2.70	2.70	0.6	91.85		
	Column below plinth								
		Cum	21	0.3	0.45	0.50	1.42		
	Plinth Beam								
		Cum	2	32.75	0.2	0.45	5.90		
		Cum	9	5.5	0.2	0.45	4.46		
		Cum	1	1	0.2	0.45	0.09		
	Sump								
	Bottom slab	Cum	1	2.30	2.30	0.15	0.79		
	Sump walls	Cum	2	2.30	0.15	2.10	1.45		
		Cum	2	2.00	0.15	2.10	1.26		
	Cover slab	Cum	1	2.30	2.30	0.15	0.79		
	Basic rate							5992.00	
	Add 8% For Shuttering							599.20	
	Sub Total							**6591.20**	
	Area weightage 10%							659.12	
	Total						**108.01**	**7250.32**	**783088.94**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
12	Providing and laying in position Reinforced cement concrete for all **Super structures of building** , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) **M25 Design Mix** Using 20 mm nominal size graded crushed coarse aggregates (Vol 2/ P No-17/ I no- 2.5.2 of PWD SR 2021-22)								
	Ground Floor								
	Columns upto beam bottom								
		Cum	21	0.3	0.45	2.65	7.51		
	Basic rate							6186.00	
	Add 10% for Shuttering							618.60	
	Sub total							6804.60	
	Area weightage 10%							680.46	
	Total						**7.51**	**7485.06**	**56233.38**
	Lintel								
	Along long direction	Cum	2	29.90	0.2	0.2	2.39		
	Along Short direction	Cum	2	5.50	0.2	0.2	0.44		
		Cum	2	5.50	0.1	0.2	0.22		
		Cum	1	5.30	0.1	0.2	0.11		
		Cum	1	3.30	0.1	0.2	0.07		
	Basic rate							6186.00	
	Add 20% for Shuttering							1237.20	
	Sub total							7423.20	
	Area weightage 10%							742.32	
	Total						**3.22**	**8165.52**	**26325.64**
	Chejja	Cum	13	1.40	0.30	0.15	0.82		
	Basic rate							6186.00	
	Add 45% for Shuttering							2783.70	
	Sub total							8969.70	
	Area weightage 10%							896.97	
	Total						**0.82**	**9866.67**	**8080.80**
	Staircase								
	Waist slab	Cum	2	4.00	1.2	0.175	1.68		
	Steps	Cum	23	1.20		0.022	0.61		
				triangular area					
	Landing slab	Cum	1	1.20	2.15	0.175	0.45		
	Basic rate							6186.00	
	Add 20% for Shuttering							1237.20	
	Sub total							7423.20	
	Area weightage 10%							742.32	
	Total						**2.74**	**8165.52**	**22362.91**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
								Total Amount	2118623.99
								GST Charges (18% of estimated cost)	381352.3
								Miscellaneous and Rounding off	23.7
								Grand Total	2500000.00

CERTIFICATE:

1) The work spot has been inspected and found to be necessary

2) The work spot comes under B.B.M.P

3) The provisions made in the estimate are necessary and minimum.

4) The estimate is based on S.R of 2021-2022 and Issused Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

Administrative Approval
Accorded For ..25.00 Lakhs
Head of A/C....8:3726....
CER NO :....59..... Dt:.22/8/2022

TA CE (YNK)

Technical Sanction
Accorded For ..25.00 Lakhs
Head of A/C....8:3726....
CER NO :....77..... Dt:.22/8/2022